

In [1]:



```
#Write a program to create a List of student's records and search a student record  
#using a dictionary.
```

In [2]:



```
# Python program to search student record using dictionary
```

In [16]:



```

class Student:
    def GetStudent(self):
        self.rollno=input("enter rollno: ")
        self.name=input("enter name: ")
        self.physicsmarks=int(input("enter physics marks: "))
        self.chemistrymarks=int(input("enter chemistry marks: "))
        self.mathmarks=int(input("enter maths marks: "))
        return(self.rollno)
    def PutStudent(self):
        print(self.rollno, self.name, ((self.physicsmarks+self.chemistrymarks+self.mathmarks)/3))
    def Search(self,min,max):
        per=(self.physicsmarks+self.mathmarks+self.chemistrymarks)/3
        if(per>=min and per<=max):
            return True
        else:
            return False

# creating a dictionary to store student record
studentDict=dict()
n=int(input("how many students you want to input?"))
for i in range(n):
    S=Student()
    rollno=S.GetStudent()
    studentDict.setdefault(rollno,S)

    rollno=input("enter rollno you want to search?")
    S=studentDict.get(rollno,"Not Found!")

    if(isinstance(S,Student)):
        S.PutStudent()
    else:
        print(S)

    print("All students who scored more than 60 percentage are:")
    gradeAStudent = list(filter(lambda s:s.Search(60,100),studentDict.values()))
    if(len(gradeAStudent)==0):
        print("Record Not Found!")
    else:
        for S in gradeAStudent:
            S.PutStudent()

```

```

how many students you want to input?1
enter rollno: 12
enter name: 12
enter physics marks: 12
enter chemistry marks: 12
enter maths marks: 12
enter rollno you want to search?12
12 12 12.0
All students who scored more than 60 percentage are:
Record Not Found!

```

In [ ]:



